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SNOW SURVEYS AND IRRIGATION WATER FORECASTS

FOR

RIO GRANDE BASIN

May 1, 1937

by the Bureau of Agricultural Engineering of the U. S. Department of Agriculture, in cooperation with The following data pertaining to snow surveys and irrigation water-supply forecasts are provided State Departments, other Federal bureaus and local organizations. 1/ The status of precipitation from October to May 1: Records of fifteen precipitation stations, 6,000 observed on four snow courses on May 1, is approximately two and a half times that existing last year at snowfall for the winter has been above the average in the mountains. The mean water content of snow as feet or more in elevation in Colorado and New Mexico, show precipitation to be above normal.

floods in the lower areas of the San Luis Valley. Because of the heavy snow cover at the high elevations, taken at random, indicated approximately an average depth of one inch with a water content of one-quarter temperatures prevailed throughout April and high drying winds from the west and southwest occurred during Luis Valley, May 1, the average depth of snow on six courses was 39 percent and water content 55 percent of that of April 1. In the vicinity of the Silver Lakes course, 9,600 feet elevation, 20 snow samples, The snow cover in the mountain areas in southern Colorado and northern New Mexico during the past the last few days of the month. During the early part of the month, rapid thawing of the snow can sed month has been reduced considerably in depth with a corresponding loss in water content. In the San inch. In this area all southern exposures are bare of snow, and the soil is dry. In this area mild the stream flow should be maintained during the irrigation season.

attached table. Further filling of these reservoirs may be expected during the late spring run-off from Storage in the principal reservoirs in the Rio Grande drainage basin as of May 1, is given in the the accumulated snow in the mountain areas. THE STREET OF

Bureau of Agricultural Engineering, U. S. Dept. Agr.; Forest Service; Colo. Agri. Expt. Station Colo. Expt. Station, Fort Collins, Colo. Summary of Federal and State Cooperative Snow Surveys Issued May 10, 1937.

Bri Dog ymy Bootna	, F	Location			[5]	May 1	Snow Course	Measuren	
(Primary and Secondary and Snow Courses)	State	Sec	Twp.	Range	(Feet)	1937 1936 (Inches) (Inches	1936 (Inches)	1937 (Tuches)	mater Depth
RIO GRANDE							,		8000000
Wolf Creek Pass Upper Rio Grande	Colo.	13	37w 110w	是問	10,000	74.5	36.0	34.4	17.7
Cumbres Pass LaVeta Pass 2/	= =	17	32M 28'S	1 A B	10,000	53.6	20.0	32.7	11.7
Silver Lakes River Springs Red River	" " Now	288	0000 0000 0000 0000 0000 0000 0000 0000 0000	3 B B	0000	200	11	0.0	1 1
Taos Canon Hematite Park 2/	= = =	200	SSN SSN	125	9,000				
Holman Hill Aspen Grove	==	10	22N 18N	1位因	9,400				
Lee Ranch Canjilon	= =	mat	1.8N 26N	思思	9,050				
Rio Mutrias Panchulela Creek	= =	9# #	277 19M	月月日	7,900		,		
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Hematite Park Ocate Mesa	New Mex.	25	28N 24N	10年	9,500			4	

No May First observations taken on New Mexico Courses.

New Mexico, U. S. Weather Bureau, and Colorado Agricultural Experiment Station, and various municipalities, 1/ The snow measurements are made principally by field personnel of the U. S. Forest Service and Colorado State Engineer. This work is otherwise conducted cooperatively with the State Engineers of Colorado and irrigation associations and others.

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Reservoir Storage in Acre-Feet, Rio Grande Drainage, as of May 1, for the Years 1927-1937 inclusive (Based on data gathered by the State Engineer of Colorado and the U. S. Bureau of Reclamation)

Elephent Butte (2,407,100) Ac-Ft	1, 285, 100 1, 258, 300 1, 158, 300 1, 158, 200 1, 158, 200 1, 275, 300 1, 275, 300	1,066,800	O ₁	98
Continental (26,700) Ac-Ft	1,200 6,700 900 7,700 7,500 7,500	2,390	α	딩
Terrace (17,700) Ac-Ft	44444 6000000 7440000000 74000000000000000000	3,560	25	126
Sanchez (25,900) Ac-Ft	10,400 13,000 13,000 10,200 10,200 12,000 17,600	11,600	89	152
Santa Moria (45,000) Ac-Ft	23,900 29,900 12,900 12,900 12,000 4,600 6,900 9,500	11,700	2.1	81
Rio Grande (45,800) Ac-ft.	32,700 34,700 34,700 37,000 4,700 4,900 16,600	14,700	35	110
Year	19929 19929 19939 19939 19936 19936	11-yr. Ave.	1937 percent of cap.	1937 percent of ave.

*Based on capacity of 2,273,700 Acre-Feet.

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